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## **CLAIMS AMENDMENTS**

## In The Claims

Please enter rewritten claims 1-5, 7, 9, 10-12, 14, and 16-19. Please cancel claims 6, 15, and 20 without prejudice or disclaimer. A list follows of all claims presented in application serial number 10/773,550.

- 1) (CURRENTLY AMENDED) A solenoid-based propulsion system comprising:
  - A) at least one multiple wire coil set solenoid;
  - B) a magnetic object, at least a portion of which reciprocally moves within the multiple wire coil set solenoid; [[and]]
  - D) an energizing control system connected to multiple wire coil sets of the solenoid that controls the dwell angle for time duration for energizing each wire coil set;
  - E) wherein the multiple wire coil set solenoid has an opened ended tube through which the magnetic object may be unilaterally and completely propelled out of tube when at least one wire coil set is de-energized.
- 2) (CURRENTLY AMENDED) A solenoid-based propulsion system of claim 1 wherein the dwell angle for time duration for the energizing each wire coil set of the multiple wire coil set solenoid is adjustable.
- 3) (CURRENTLY AMENDED) A solenoid-based propulsion system of claim 1 wherein the dwell-angle are time duration for energizing a wire coil is different for each wire coil set of a multiple wire coil set solenoid.
- 4) (CURRENTLY AMENDED) A solenoid-based propulsion system of claim 1 wherein the [[energy]] energizing control system <u>further comprises</u> [[is comprised]] of an electronic timer to coordinate the energizing of the wire coil sets.
- 5) (CURRENTLY AMENDED) A solenoid-based propulsion system of claim 1, wherein the energizing control system skip energizes selected wire coil sets at selected times.

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6) (CANCELLED)

- 7) (CURRENTLY AMENDED) A solenoid-based propulsion system of claim [[6]] 1, wherein the wire coil set closest to the open end of the tube is the last to be de-energized.
- 8) (ORIGINAL) A solenoid-based propulsion system of claim 1 wherein the one multiple wire coil set solenoid contains a centering magnet.
- 9) (CURRENTLY AMENDED) A solenoid-based propulsion system of claim 1 wherein the energizing control system <u>further comprises</u> [[is comprised]] of an [[audio signal]] sine/square wave generator that energizes the wire coil sets.

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- 10) (CURRENTLY AMENDED) A solenoid-based propulsion system comprising:
  - A) at least one tube with an exterior and an interior;
  - B) multiple wire coil sets wrapped around the exterior of the tube;
  - C) a magnetic object which reciprocally moves within at least a portion of the interior of the tube; and
  - D) an energy control system [[connected]] connects to wire coil sets of the multiple wire coil set solenoid that skip energizes select wire coil sets at selected times.
- 11) (CURRENTLY AMENDED) A solenoid-based propulsion system of claim 1, wherein the energy control system controls the dwell-angle of energized time duration for wire coil sets.
- 12) (CURRENTLY AMENDED) A solenoid-based propulsion system of claim 1, wherein the energy control system [[is]] further [[comprised]] comprises of [[an]] a sine/square audio signal generator that energizes the wire coil sets.
- 13) (ORIGINAL) A solenoid-based propulsion system of claim 1, wherein water and air tight compartments contain the energizing control system and wire coil sets while the interior of the tube and the magnetic object connected to a conversion mechanism are vented to the outside atmosphere.

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14) (CURRENTLY AMENDED) A methodology for operating a solenoid-based propulsion system comprising:

- A) placing [[an]] a magnetic object inside an open ended tube that has at least one multiple wire coil solenoid wrapped around [[it]] its exterior;
- B) centering the magnetic object within the midpoint of its reciprocal movement
- C) alternatively energizing the wire coil sets of the multiple wire coil solenoid;
- D) reciprocally moving the magnetic object in a reciprocal movement. within at least portion of the tube, and
- E) stopping the reciprocal movement of the magnetic object to propel the magnetic object irreversibly and completely out of the open ended tube.
- 15) (CANCELLED)
- (CURRENTLY AMENDED) A methodology for solenoid-based propulsion of claim [[15]]

  14 activating of a trigger switch to unilaterally propel the magnetic object totally out through the [[muzzle]] open end of the tube.
- 17) (CURRENTLY AMENDED) A methodology for solenoid-based propulsion of claim 14 wherein the additional step of activating a frequency signal generator further comprising activating a sine/square wave audio generator.
- (CURRENTLY AMENDED) A methodology for solenoid-based propulsion of claim 14 wherein the additional step further comprises further comprising adjusting the propulsion magnet.
- (CURRENTLY AMENDED) A methodology for solenoid-based propulsion of claim 15 wherein the additional step is further comprising adjusting the [[dwell angles for]] time duration for the energizing of the wire coil sets.
- 20) (CANCELLED).